

Technical Data Sheet

**Icorene 3550**

Linear Low Density Polyethylene
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® 3550 is a linear low density polyethylene for rotational molding applications. The grade is UV stabilized and suitable for applications requiring good stiffness and processability.

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• UV Stabilizer		
Uses	• Agricultural Tanks • General Purpose	• Outdoor Applications • Pallets	• Septic Tanks • Toys
Appearance	• Natural Color		
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density (Natural)	0.932 to 0.937 g/cm ³	0.932 to 0.937 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5 to 5.5 g/10 min	4.5 to 5.5 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			
Condition A, 10% Igepal, F50	100 hr	100 hr	ASTM D1693
100% Igepal, F50	> 1000 hr	> 1000 hr	ASTM D1693A
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield, Rotational Molded)	2600 psi	17.9 MPa	ASTM D638
Tensile Elongation ¹			ASTM D638
Break, Rotational Molded	500 %	500 %	
Flexural Modulus - 1% Secant (Rotational Molded)	102000 psi	702 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Impact Strength			ARM
-40°F (-40°C), 0.125 in (3.18 mm), Rotational Molded	55 ft·lb	75 J	
-40°F (-40°C), 0.250 in (6.35 mm), Rotational Molded	> 190 ft·lb	> 258 J	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, Rotational Molded	136 °F	58.0 °C	
264 psi (1.8 MPa), Unannealed	102 °F	38.9 °C	

Notes

¹ 2.0 in/min (51 mm/min)

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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